

Brent M. Zey

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Experience

Curation Health

Senior Software Engineer

Fully Remote

February 2021 – May 2025

- Senior engineer on a data platform Software-as-a-Service (SaaS) of electronic medical records (EMR). Engineered API data exchange and UI/UX integrations with EMR vendors such as Epic, Athena, Cerner, Allscripts, NextGen, and Redox.
- Lead modernization efforts of our Python, Java, and Scala API services to newer R4 FHIR models, allowing capture of higher fidelity data not present in older FHIR versions. Allowed utilizing newer versions of business to business FHIR APIs, eliminating 3–6 months of data lag previously ingested via files. This work provided a satisfaction boost for a client who then agreed to expand their patient volume contract by 175%.
- Led the standardization of our internal Java and Python ETL pipelines, frameworks, and microservices with RabbitMQ messaging and Kafka with other senior engineers; standardization decreased onboarding time of a new client by 2 weeks.
- Completed end-to-end project planning and implementation of an Okta SSO integration for doctor users to securely access our app, streamlining their workflow by keeping only 1 login.
- Assisted upgrading our React UI projects to use more modern TypeScript React, functional components, hooks in the Redux store.
- Experienced in working with core AWS cloud technologies such as IAM, S3, Transfer Family, and VPCs to create secure SFTP buckets for safe data file exchange with our customers – either manually or automated.
- Worked alongside our DevOps team in deployment and maintenance of image containers (ECR), Kubernetes clusters (EKS), EC2 instances, Lambdas, AWS RDS Postgres, and DynamoDB tables used in our organization's cloud infrastructure.
- Conducted a one-day turnaround on vague end-user requirements into clear objectives and timeline estimates needed for a new electronic medical record (EMR) API integration with NextGen, securing a contract renewal for our third largest client.
- Onboard and mentor core software and data engineering hires – spending time pair programming in Scala, Java, and data engineering.
- Held architectural deep dive session presentations to display and explain our core services to engineering team members ranging from the CTO to junior engineers.
- Interviewed senior software engineer, data engineer, and junior engineer applicants and reported my assessment of technical and cultural fit to the CTO.

Home Credit US, LLC

Credit Risk Analyst & Underwriting Systems Developer

Overland Park, KS

November 2019 – July 2020

- Responsible for coding and debugging the credit approval business logic API module.
- Maintained documentation of the credit decisioning flow on Confluence changelog page with supporting code evidence to highlight changes to the codebase alongside results of testing.

- Mocked and randomized data for simulation testing our models using Oracle PL/SQL tools.
- Created data visualizations and predictive statistical models to highlight newfound trends that can be leveraged to tune creditworthiness assessment of customers.

Technical Skills

- **Languages:** Java, Scala, Kotlin, TypeScript, JavaScript, Python, Rust, HTML5, CSS3, SQL, shell scripting
- **Frameworks:** React, Redux, Vue, SST, AWS CDK (TypeScript), Spring Framework, Quarkus, JAX-WS, JAX-RS, MicroProfile, JDBI, JPA, doobie, circe, cats, http4s, sttp
- **Databases:** PostgreSQL, DynamoDB, MongoDB, Hazelcast (cache), Redis, CockroachDB, Neon DB service, Elasticsearch
- **Concepts:** GraphQL, REST, TDD (Jest, JUnit), ETL, database design, OOP, Functional programming, reactive messaging, data streaming
- **Tools:** Maven, Gradle, Cargo, git, Jenkins, Docker, Kubernetes, RabbitMQ, Kafka, Linux, UNIX/POSIX shell, Yarn, npm, npx, nvm, sdkman, JIRA, Grafana, Prometheus/Kibana
- **AWS:** EC2, ECS, EKS, EBS, S3, SQS, Lambda, IAM, CloudWatch, CloudFront, Route 53, Certificate Manager, Transfer Family, VPC

Education

2017 – 2019	University of Kansas <i>M.A. Economics</i>	Lawrence, KS
2013 – 2017	University of Wisconsin – Whitewater <i>B.S. Mathematics, Economics, and French</i>	Whitewater, WI